

Figure 1

Figure 1 consists of two panels, (a) and (b), showing histograms of the number of non-zero elements in the matrix A . Panel (a) shows the distribution for $n = 10^6$, with the x-axis labeled "Number of non-zero elements" ranging from 0 to 100,000,000 and the y-axis labeled "Frequency" ranging from 0 to 100. The distribution is highly skewed towards zero, with a peak frequency of approximately 90 at zero non-zero elements. Panel (b) shows the distribution for $n = 10^7$, with the x-axis labeled "Number of non-zero elements" ranging from 0 to 1,000,000,000 and the y-axis labeled "Frequency" ranging from 0 to 100. This distribution is also highly skewed towards zero, with a peak frequency of approximately 80 at zero non-zero elements.

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